QC ABSTRACT

NAME OF WORK: Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	PCC(M20)	Compressive Strength(7days and 28days)	9 set /251-300 cum	294.44	18	18
7	RCC(M25)	Compressive Strength(7days and 28days)	5 set /51-100 cum	92.07	10	10

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-02-13-25** **Date: 04-01-21**
Project Name	:	Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
Date of Receipt	:	01-01-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	02-01-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.05	_
2	Finess by Air permeablity method (m^2/kg,Min)	298.6	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-02-13-25** **Date: 04-01-21**
Project Name	:	Construction of Buildings and Other Civil Works and Playgourrds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
Date of Receipt	:	01-01-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-01-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	385	385	2.6	97.4	90-100
3	20 mm	7048	7433	49.6	50.4	30-70
4	10 mm	4396	11829	78.9	21.1	10-35
5	4.75 mm	2845	14674	97.8	2.2	0-5
6	Pan	326	15000	100.0	0	—

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-02-13-25** **Date: 03-01-21**
Project Name	:	Construction of Buildings and Other Civil Works and Playgourids in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
Date of Receipt	:	01-01-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-01-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	318	318	6.4	93.6	90-100
3	10 mm	2852	3170	63.4	36.6	25-55
4	4.75 mm	1622	4792	95.8	4.2	0-10
5	Pan	208	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-02-13-25** **Date: 03-01-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.7	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.45	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.4	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-13-25

Date: 12/01/2021

Project Name : Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

Agency : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Date of Receipt : 07-01-21

Customer ID : Copping Concrete For SSM (Parking Lot)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Copping Concrete For SSM	M20	05/01/2021	12/01/2021	151.92 X 150.88 X 150.61	22921	8.435	425.6	18.5	18.5
2	Copping Concrete For SSM	M20	05/01/2021	12/01/2021	149.80 X 149.91 X 150.45	22456	8.332	411.4	18.3	
3	Copping Concrete For SSM	M20	05/01/2021	12/01/2021	149.39 X 149.79 X 150.57	22377	8.714	419.3	18.7	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/02/2021

Lab ID	:	CP-2021-02-13-25
Project Name	:	Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
Date of Receipt	:	07-01-21
Customer ID	:	Copping Concrete For SSM (Parking Lot)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Copping Concrete For SSM	M20	05/01/2021	02/02/2021	151.00 X 151.11 X 151.18	22817	8.015	525.2	23.0	23.0
2	Copping Concrete For SSM	M20	05/01/2021	02/02/2021	149.96 X 151.76 X 149.05	22758	8.242	520.5	22.9	
3	Copping Concrete For SSM	M20	05/01/2021	02/02/2021	150.16 X 151.89 X 150.57	22809	8.722	528.3	23.2	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-13-25

Date: 02/02/2021

Project Name : Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

Agency : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Date of Receipt : 07-01-21

Customer ID : Copping Concrete For SSM (Parking Lot)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Copping Concrete For SSM	M20	05/01/2021	02/02/2021	150.56 X 151.33 X 149.77	22784	8.015	538.4	23.6	23.2
2	Copping Concrete For SSM	M20	05/01/2021	02/02/2021	151.68 X 149.63 X 149.24	22696	8.242	508.2	22.4	
3	Copping Concrete For SSM	M20	05/01/2021	02/02/2021	150.95 X 151.76 X 150.29	22908	8.722	543.2	23.7	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-13-25

Date: 02/02/2021

Project Name : Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

Agency : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Date of Receipt : 07-01-21

Customer ID : Copping Concrete For SSM (Parking Lot)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Copping Concrete For SSM	M20	05/01/2021	02/02/2021	151.02 X 151.56 X 151.39	22890	8.015	536.0	23.4	23.1
2	Copping Concrete For SSM	M20	05/01/2021	02/02/2021	149.79 X 150.55 X 151.08	22551	8.242	506.3	22.5	
3	Copping Concrete For SSM	M20	05/01/2021	02/02/2021	149.12 X 151.55 X 151.47	22599	8.722	530.6	23.5	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2021-02-13-25

Date: 01/02/2021

Project Name : Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

Agency : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Date of Receipt : 27-01-21

Customer ID : PCC For Parking Area (Parking Lot)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC For Parking Area	M20	25/01/2021	01/02/2021	151.77 X 151.44 X 149.39	22984	8.435	435.7	19.0	18.9
2	PCC For Parking Area	M20	25/01/2021	01/02/2021	151.04 X 150.58 X 150.20	22744	8.332	431.0	19.0	
3	PCC For Parking Area	M20	25/01/2021	01/02/2021	151.81 X 149.43 X 149.19	22685	8.714	423.2	18.7	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2021-02-13-25

Date: 01/02/2021

Project Name : Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

Agency : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Date of Receipt : 27-01-21

Customer ID : PCC For Parking Area (Parking Lot)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC For Parking Area	M20	25/01/2021	01/02/2021	150.18 X 150.69 X 151.54	22630	8.435	422.7	18.7	18.7
2	PCC For Parking Area	M20	25/01/2021	01/02/2021	151.62 X 149.22 X 149.68	22625	8.332	418.2	18.5	
3	PCC For Parking Area	M20	25/01/2021	01/02/2021	150.19 X 149.45 X 149.57	22445	8.714	424.4	18.9	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Certificate No.: TC-5548

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Format No: CP/TF/01

Lab ID : CP-2021-02-13-25 **Date: 04-02-21**

Project Name : Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

Agency : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Date of Receipt : 01-02-21

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 02-02-21

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.2	_
2	Finess by Air permeablity method (m^2/kg,Min)	249.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	_
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST REPORT ON COARSE AGGREGATES

Format No: CP/TF/01

Lab ID : CP-2021-02-13-25

Date: 03-02-21

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2021-02-13-25

Date: 17/02/2021

Project Name : Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

Agency : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Date of Receipt : 12-02-21

Customer ID : Footing Concrete, (Judicial Layout Badminton Court)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	10/02/2021	17/02/2021	151.89 X 150.81 X 151.54	22906	8.237	537.3	23.5	22.8
2	Footing Concrete	M25	10/02/2021	17/02/2021	150.08 X 149.84 X 150.53	22489	8.814	505.1	22.5	
3	Footing Concrete	M25	10/02/2021	17/02/2021	149.34 X 149.52 X 149.53	22329	9.033	500.9	22.4	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-13-25

Date: 23/02/2021

Project Name : Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

Agency : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Date of Receipt : 18-02-21

Customer ID : Column Concrete (Judicial Layout Badminton Court)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/02/2021

Sl No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Column Concrete	M25	16/02/2021	23/02/2021	150.31 X 150.03 X 151.56	22550	8.237	518.9	23.0	22.9
2	Column Concrete	M25	16/02/2021	23/02/2021	151.69 X 150.53 X 149.20	22834	8.814	521.7	22.8	
3	Column Concrete	M25	16/02/2021	23/02/2021	151.76 X 149.90 X 150.64	22749	9.033	519.9	22.9	

* The results obtained are satisfactory as per standard requirements.

* ಕರ್ನಾಟಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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TEST REPORT ON COARSE AGGREGATES

Format No: CP/TT/01

Lab ID	:	CP-2021-02-13-25 Date: 12-02-21
Project Name	:	Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
Date of Receipt	:	10-02-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-02-13-25

Date: 12-02-21

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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